	Application No.	Applicant(s)
Notice of Allowability	10/840,117	JEN, CHUNG KUEI
	Examiner	JEN, CHUNG KUEI Art Unit
	A Made and Wide I	
	Michael Trinh	2822
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subject	application. If not included tion will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>5/5/04</u> .		
2. The allowed claim(s) is/are <u>1-24</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority un  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have	been received.	
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority doc	cuments have been received in tr	nis national stage application from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		•
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. tted. Note the attached EXAMIN	ER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") musi	t he submitted	
(a) including changes required by the Notice of Draftsperso		FO-948) attached
1) hereto or 2) to Paper No./Mail Date		10 040) altaolica
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		e Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the GICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	<ol> <li>5. ☐ Notice of Information</li> </ol>	al Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summa	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mail l B), 7. ☐ Examiner's Amer	
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. 🛛 Examiner's State	ement of Reasons for Allowance
	9. Other	Similail
		Michael Trinin Primary Examiner

Art Unit: 2822

## **DETAILED ACTION**

\*\*\* This office action is in response to filling of the application on May 05, 2005. Claims 1-24 are pending.

## Allowable Subject Matter

- 1. Claims 1-24 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

The references of record including Jie et al (2002/0047967), Wei (2003/0138982), Lu (5,764,324), Liu et al (2003/0076461), etc., alone or in combination, do not fairly anticipatively disclose each and every aspect of the method for forming a liquid crystal on silicon, or fairly make a prima facie obvious case of the claimed method, in combination with other processing claimed limitations such as recited in base claim 1, the inclusion of providing a silicon substrate comprising a first overlying dielectric insulating layer and metal pixel electrodes; forming a hardmask layer over the second dielectric insulating layer formed over the metal pixel electrodes; photolithographically patterning a resist layer formed over the hardmask layer and plasma etching the hardmask layer to form an etching mask for etching spacers in the second dielectric insulating layer; carrying out a first plasma etching process to form spacers; removing remaining resist layer portions and polymer etching residues over the process surface; and, carrying out a second plasma etching process to etch grooves between metal pixel electrodes adjacent the spacers.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael M. Trinh whose telephone number is (571) 272-1847. The examiner can normally be reached on M-F: 8:30 Am to 5:00 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone numbers for the organization where this application proceeding is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956. Oacs-17

Michael Trinh Primary Examiner